PATENT VAMPIRES PREY ON HELPLESS INVENTORS

and, of course, the money will And so it is, for lawyers." late her upon the decision of the court, after years of litigation to asthe common types of films, which Eastman Kodak Company, was:

be acceptable. But what she said to all who called to congratuhave been manufactured by the "Tell my friends that I am not anxious about the money, except as a just recognition of my husband's



He was the Rev. Hannibal Good win. When he invented the sensitized film, while looking for a substitute for the breakable glass plate he was rector of the House of Prayer, in Newark. His laboratory was in the attic of the old brick rectory near the church. He made his first application for a patent in May, 1887. The patent was not granted until September, 1898. In the mean time the Eastman company used the films and refused to recognize that the pastor-patentee had any rights in the matter. And then Mr. Goodwin died on December 31, 1900-died in poverty.

Mrs. Goodwin lives with her daughter in a frame house in Newark. The decision of the United States Court of Appeals may, after all these years of modest outlook, mean several million dollars to them. The daughter is sixty-one years old.

THE MELTING INFLUENCE OF LITIGATION COSTS.

Their share of the postponed reward will be materially lessened by the fact that in order to meet the costs of litigation the inventor was forced to assign a large share of his interest to others. It is hard for either of these patient women to realize that the high hopes of the bighearted minister, who used to tell them so frequently that they would all be rich some day, have at last come true. Which brings us to an mportant thing.

President Wilson has given warnng to the people of the United tates of the importance of these vestions in the following language: "Do you know, have you had occa-

sion to learn, that there is no hospi-

tality for invention nowadays? . . . I am not saying that all invention has been stopped by the growth of trusts, but I think it perfectly clear that invention in many fields has been discouraged, that inventors have been prevented from reaping the full fruits of their ingenuity and industry, and that mankind has been deprived of many comforts and conveniences, as well as the opportunity of buying at lower prices.

"One of the reforms waiting to be undertaken is a revision of our patent laws."

H. Ward Leonard, president of the Inventors' Guild, a very distinguished organization, of which Mr. Edison is a member, said to the writer a few days ago: "Under existing methods of trying patent causes an inventor-patentee of average means could not at his own expense carry to a conclusion an average litigation against a wealthy opponent. Therefore, a few wealthy concerns usually acquire nearly all important patents in their field.

This works great damage to the nation. Competition by invention is the only efficient form of competition. Our present laws result in a restraint of competition and produce a tendency in inventors to seek protection for their inventions by trade secrets or else to cease inventive work."

WARD-LEONARD SYSTEM OF

MOTOR CONTROL. Mr. Leonard is the inventor, among other things, of the Ward-Leonard system of motor control. Ask the men in the navy what they think of it for doing the heavy but delicately exact work of turning the gun turrets on the men-of-war. The Otis company paid him \$120,000 for a license to use the Ward-Leonard system in starting and stopping the motors on its elevators. These facts are mentioned so the layman may understand that whatever Mr. Leonard chooses to say on the subject of revision of our patent laws is based on experience, not all of

which has been sad. "There is probably not an experienced inventor in the United States," says Mr. Leonard, would not prefer one of the foreign patent systems to our system, unless he is really a representative of one of the large corporate interests. Yet practically all patent lawyers will tell you that the American pat-

Mr. Leonard had to pass through twelve interferences before he succeeded in establishing his rights to his system of motor control. He sert her husband's patent rights to spent not less than \$75,000 of his own money in this pleasant indoor sport of fighting interference proceedings in the Patent Office, in every one of which he was the first

> quiry by the Patent Office between two rival inventors of the same thing for the purpose of ascertaining who is the original inventor; for under our patent law, as it stands to-day, the patent must issue to the first inventor. The entertainment may last for weeks, and the lawyers who represent the conflicting inventors charge from \$25 to \$100 a day for their services. Not

only is the inventor called upon to in-

cur an expenditure which may bank-

rupt him, but the interference may

by no means conclusively establish

Time and again inventors have

urged that these expensive recrea-

tions be abolished; that patents shall

be granted to those who are first in

the Patent Office. This would mean

a radical change in the law, but a

change that would prevent many a

through his toy building blocks,

owned a large glass ball which

seemed possessed of life, always

colling where it was not wanted.

This was the small circumstance

which led to his invention of "Pigs

in Clover." by which he cleaned up

over \$40,000. There were no inter-

ference proceedings in this case. The

inventor of the roller skate made

nearly \$1,000,000, although only dur-

ing the last few years of his patent.

The door of adversity is less ajar if

you invent something on this order.

or a lead pencil with rubber tip, or

a dancing jim crow, or a system

to expedite the tedious operation of

CERTAIN PATENT ATTORNEYS

DISGRACE CALLING.

Because of our odd patent pro-

cedure a class of patent attorneys

has arisen who may be regarded as

legalized swindlers, and with whom

the Commissioner of Patents, de-

spite his best efforts, is powerless to

accounts of the prizes won by Amer-

ican inventors, and succeed in in-

fluencing great hordes of fellow citi-

zens to believe that the initial fee of

\$15 will result in making an Archi-

medes of each one of them. This is

Over one million patents have been

granted in this country (and this is

more than double the number issued

by any other nation), but of that im-

misleading.

These men write glittering

wilful abuse.

The Ease with Which a Certain Class of Patent Attorneys, as You talk to your friends and try to induce them to help you raise a Well as Some Unscrupulous Capitalists, Have Diverted Profits on Ideas from Their Originators Is Due to Defective Laws, Which There Is Urgent Need, President Wilson and Experts Agree, of Changing Materially.

ever netted the patentee the fees

to the attorney. Assuming that you are of the intelligent minority, that you have been assailed by an idea worth millions of dollars and that you are in arrears for your last week's dancing lessons, if your idea brings you in contact with one or more tremendously large and domineering manufacturing institutions the proceedings will probably be something as

You will tell the head man of the concern what it is that you can do with the machine for which you have asked the United States government to grant a patent. The head man will ask you if you smoke, and you may be sure the cigar will be a good

pressive total not 10 per cent have - practically the work of your contrivance. The model is to be just that he paid to the Patent Office or . enough different from yours to make your next interview interesting.

When you call again the office boy is extremely polite, and you cannot but feel a glow of pride as you are ushered into the private office of the man who is at the head of so great a You are about to receive some of the reward for which you have toiled so many years.

The way to invent is to think, and keep on thinking. A lazy inventor has never yet been born. No day laborer works as many hours a day. A press agent for a musical comedy prima donna cannot show a better record for diligence of both the body and mind. Early in life you turned to invention, and learned that the mastering of difficulties was one of the elements of the first principle underlying that science.

You have passed through the stage when all your friends said that what you started to do was impossible. No one has believed in you. It has been agony. You are now on the eve

connected with that department of art or industry in which the need exists, excite your mind with the belief that you can provide means to remove the difficulties and end by solving the problem.

But he adds that his concern has been at work in its laboratory for many months on the solution of the same problem, and that, while it had not succeeded to the same extent as yourself, perhaps, in removing the obstacles, yet his company had done very well indeed, and probably in another month or two would be able to announce to the world the perfection of a satisfactory machine.

You might better, he says, reconsider the matter and agree to sell out, because, he says, if you persist in your determination to hold out against his concern, one of the greatest in its line in the world, why, it grieves him to say it, but there will really be nothing left for his company to do but wait and watch developments in the Patent Office.

The flavor of the cigar is spoiled for you. You have a taste in your mouth of ashes. You feel a little

dizzy. In a vague kind of way you

realize what you are up against.

You are up against the need for

\$100,000, and maybe another on top

of it, and you are not at all sure

but that the great corporation, with

its fathomless resources, will be able

to throw you on the scrap heap

after the long legal fight is finished.

proceedings. And you are also fa-

miliar with what you may expect

in the matter of delay between the

filing of an application for a patent

and the granting of a patent. This

is not always to be charged to the

attorney in the case. The highly

complex and involved procedure of

the Patent Office is responsible, for

It is not long until you begin to

learn that the more patents you have

that are infringed by these great

corporations the less chance you

have to deal with them on any

royalty basis. You remember that

there are only a few inventors who

have been able to paddle their own

canoes. Most of the good ones have,

against their will, been gobbled up.

and are now working on a salary for

men who are making several times

that salary out of their inventions.

many of them.

The man has hinted at interference

the big concern, whose head man has made you a proposition to take over your rights in your invention. and at the same time find a place for you on the payroll at a living salary, the stipulation being that you will turn over to the company all future inventions which may

You are hungry and your friends are backward. You cannot blame your friends. They have been reading the papers. They know that the Wright brothers unquestionably first demonstrated the possibility of mechanical flight. Whatever rights, powers and privileges were earned by them should, of course, have been theirs, safe from all attack as soon as they had complied with legal requirements in taking out patents

spring from your brain.

Mississippi River, you are referred to a Mr. Fisher, in Washington. He represents the Eastern Railroad Association, made up of some 250 corporations, each chipping in a small contribution to sweeten the kitty so as to protect all of its members "against unjust claims made for patented inventions," have adopted the same methods,

except by invention.

Ninety-one automobile companies

This is detrimental to progress in

the United States. No country can

compete with the rest of the world

If you invent something for use on

railroads and you live east of the



No body of men, says Mr. Leon-

ard, is more difficult to get into unanimity of thought than inventors. Also, no group is less gregarious. The public should, he says, differentiate between intellectual and material monopoly. An invention is the personal, intellectual property of the inventor, it is his. He created it A monopoly is exclusive right to a thing that some one else has ereated. In other days, he points out. highways were frequently controlled by corporations, which reaped a toll from every traveller. This was monopoly. The man who invented the macadam system or the cantilever

of but in spite of our patent system. His greatest invention was the inard says he received only a part of the money from it to which he was entitled, owing to the deprivation of his rights by the courts. An old man, of whom you may never have heard-it is a 10 to 1 shot you never did-named Goebel, from Western Pennsylvania, was brought into court in St. Louis and declared by clever attorneys to be the inventor of the incandescent electric light, which has given greater impetus to civilization than kerosene and golf combined. He was an itinerant astronomer, with a rickety wagon and a decrepit horse. The judge in St. Louis was so impressed by the lawyers that he refused to grant an injunction for Edison, although thirty-odd courts in

THE MELANCHOLY END OF SOME FINE AMBITIONS.

out, was what every inventor gets

under our outrageously imperfect

patent laws-"a paper which per-

mitted them to defend their inven-

tion if they could in maddeningly

protracted and enormously expen-

chose to infringe or copy it."

sive litigation against anybody who

Your friends are wise, perhaps, in advising you to get on the payroll. At least, they are careful not to spend thousands of dollars of their money, from which they would get nothing except an opportunity to sit in various courtrooms in different states of the Union, watching high priced attorneys wear frowns of deep abstraction while remarking "heretofore, to wit," and quoting Shakespeare, Blackstone, Chitty, Archbold, Joaquin Miller, Kent, Tupper and Christy Mathewson, and

so on for forty-six hypotheses. You end by taking the job on the terms mentioned, and you live to see the company make hundreds of thousands of dollars by reason of your invention. This is a true story. It has actually happened to one in-

was not a monopolist. Edison has succeeded not because candescent electric light. Mr. Leon

the East had done so.

RECOGNITION THE INVENTOR'S FIRST THOUGHT.

Mr. Leonard says the first thing a real I ventor thinks of is recognition for his contribution to the welfare of the world. And then, of course, money, which is of secondary importance, because a good inventor must be independent.

"If we find that corporations are better able," said Mr. Leonard, "because of their vast resources of what not to make improvements such as the incandescent electric light, then let us abandon the patent system, which only recognizes individuals. If these large corporations never can be able to make the advances in the arts that individual inventors, properly protected, can do. then let us go back to what was intended by the Constitution, and pretect them from extermination by the power of money

Mr. Leonard has written a bill at the suggestion of Thomas Ewing, jr. Commissioner of Patents. If this bill had been in effect the Rev. Mr. Goodwin and Lis family would have received 5 per cent on all sales from the moment the minister displayed to the court his patent for the invention, in 1898, until the present time This would have made millionaire of the Goodwin family early in the

Instead of being, as now, impotent when dealing with great corpors. tions, the inventor-we are talking of the real inventor, a type not at all like the one the stage has made popular, but a person who would succeed in anything he undertook by reason of divine fire and perennal perspiration-such a man, then, be cause of the 5 per cent would have the money with which to carry co the very litigation of which the great corporations are now so fond.

And a judge would no longer asi as was done in one of Mr. Leonard suits: 'Who is this Mr. Leonard Is he a man of means, or as it ventor?"

THE WORLD'S DEBT TO GEORGE WESTINGHOUSE

of having your invention come into

commercial use, and the revenge is

going to be nearly as sweet as the

money with which you intend to buy

your wife a dozen silk dresses to

make up for the years in which she

has turned her cotton ones inside

THE HARD MAN AND THE

QUESTION OF ROYALTY.

The conversation turns to the price

at which you will turn over all rights

in this invention and all future in-

ventions. You stick to your deter-

mination to arrange for its disposal

on the basis of royalty. The busi-

ness man is very kind and cour-

teous. He compliments you on your

wonderful ability to study the need

of the public, learn the difficulties

Continued from first page.

said: 'they'-pointing to the clerks-

"Take what?" he asked, only half recalled from his plans. "This magazine. I'm putting in

my vacation getting subscriptions," THE AIRBRAKE IDEA TAKES DEFINITE FORM.

"Mr. Westinghouse was always generous and good natured. Quite naturally, therefore, he 'took' it, abstractedly, never dreaming of the tremendous results that were to flow from this slight kindness. The little girl thanked him and disappeared. She never entered his life again. Even her name is forgotten and the name of the magazine.

"The magazine came along in due course of time, and Mr. Westinghouse was idly turning its leaves one September evening, when his attention was riveted by a small item that described the building of the Mont Cenis tunnel. It told of the operation of the drilling apparatus in that tunnel at a distance of 3,000 feet from the air compressor. The possible employment of compressed air in the operation of the brake flashed across his mind.

"I have it," he exclaimed, and, throwing down the magazine, her be- and he gave the credit to Mrs. Westgan to sketch roughly the plans of inghouse. She wanted gas in her

one. He knows that your idea is a

good one, that if you have solved the

problem and he can get you to sell

out at a reasonable figure his com-

pany will make hundreds of thou-

sands of dollars out of it-perhaps

He says your invention is very in-

teresting, and adds that his company

has been experimenting along sim-

ilar lines, with the result that it has

about perfected a machine to do

practically everything you claim for

your own invention, although in a

somewhat different way, perhaps.

He asks what sum you will take for

your patent. You inform him you

do not intend to sell outright, that

you will do business only on a roy-

alty basis. The big man asks you to

think it over, and invites you to call

As you are arranging your per-

turbed thoughts in the elevator on

the way to a luncheon of crackers

and milk the man you have just

seen is talking with a bright young

chap who has entered in response to

the buzzer from the main office. The

young man has been out of school

perhaps a year, perhaps six months.

The boss tells him he wants a model

made at once of a machine to do

ward applied." of the Pennsylvania and what was then known as the Panhandle railroads were invited to inspect the apparatus and witness its operation. The Steubenville accommodation train, consisting of a locomotive and four cars, was placed at the disposal

of Mr. Westinghouse. THE VALUE OF THE INVEN-TION IS PROVED.

"Upon its first run after the apparatus was attached to the train," said Mr. Westinghouse in telling the story to the American Society of Electrical' Engineers a short while ago, "the engineer, Daniel Tate, on emerging from the tunnel near the Union Station in Pittsburgh saw a horse and wagon standing upon the track. The instantaneous application of the airbrakes prevented what might have been a serious accident. and the value of this invention was thus quickly proved and the airbrake started upon a most useful and successful career."

His next big project was that of piping natural gas into Pittsburgh,

gas to the big manufacturing centres in small pipes at high pressure and distribute it in large pipes, in that way reducing the pressure to the safety point. He put an end to the disastrous explosions, leaks and blowoffs.

The inventor next turned his attention to electricity. One day he read of the experiments being made by the English electricians, Goulard and Gibbs, with the alternating current by which electrical energy could be sent great distances. Westinghouse at once sent Franklin Pope to England to buy the American rights to the invention. This done, he seized on the idea, developed it, and from that time date the great strides made in the use of electrical energy.

some important electrical patents, and there were fireworks at the time of the World's Fair in Chicago, in 1893, in consequence. He took the contract for lighting the fair at a price \$1,000,000 less than had been offered by other companies. They, in order to crush him, endeavored to persuade the exposition authorities that he could not secure the bonds

He had acquired the control of

for performance of the contract. He the Edison patents in the manufacture of the lamps, as well as the air pumps for exhausting the bulbs, which were at that time supposed to be the best.

So Mr. Westinghouse himself invented another form of lamp, known as the "stopper pattern," and invented and built machines for the grinding of the stoppers and the necks of the bulbs. And the \$1,000,000 left over and distributed to the stockholders when the fair was closed was just the amount that Mr. Westinghouse saved those stockholders by taking the contract for the lighting.

"The contests through which he has passed since 1907," says Arthur Warren, who has been closely associated with the inventor for the last seventeen years, "have been bitter, and the shafts have pierced deep into his soul, but they have not embittered him; they have on the other hand added to the stature of his superb integrity and have brought to him tributes of admiration from men of all classes and callings."

Speaking of his personal life and qualities, the Rev. Dg Fisher said of

"In his early life he became a professing Christian. That faith and the influences of his early home under strong Christian truths were never lost. He was pure in life, chaste in speech, reverent toward women, courteous and kindly toward all."

One day during a thunderstorm before the telephone had been perfected, Mr. Westinghouse asked the office boy in the Allegheny works to call up somebody for him on the wire. The boy hesitated, just a trifle, because he knew that a fellow was liable to be shocked if he used the telephone-in such weather.

"What's the matter?" Mr. Westinghouse asked the boy. "Are you afraid to use the telephone?" Mr. Westinghouse said it kindly. His mind was on something important, and he was very anxious to get in touch with a certain man at once. The boy put the receiver to his ear and received a distinct shock. It didn't amount to anything, just enough to make him jump a little. Mr. Westinghouse was upset about it, and twenty-four hours later called up the Allegheny works from the Pittsburgh office to inquire

if the boy was all right. That boy is one of the big business men in the country to-day. He thinks he knows a thing or two about why everybody admires George Westing-

Pittsburgh home, and Mr. Westinghouse began experimenting with a furnished three separate bonds equal Mr. Baggaley, in Pittsburgh, underwell in the back yard. Gas was to the amount of the contract. After took to defray the cost of constructstruck, and as a result of his experithe contract was taken, injunctions ing the apparatus needed to make ments he perfected a scheme to bring were obtained to prevent his using a demonstration. Railroad officials